



Material Safety Data Sheet

Revision date (D/M/Y) / by: 31 January 2012 / SLL Replaces (D/M/Y): 07 & 12/2010

Section 1- Product and Company Identification

Product name: Selenium enriched yeast, Alkosel, Alkosel 2000, Alkosel R397
Product use: Animal feed stuff
Contact information: Lallemand S.A.S.
19 rue des Briquetiers
31702 Blagnac, France
Emergency telephone: +33 (0)5 62 74 55 55

Section 2- Composition

Contains high concentration of selenium (2000-3000ppm) with $\geq 98\%$ as organic selenium and $\leq 2\%$ as inorganic selenium (sodium selenate or sodium selenite). This concentration is not dangerous under normal product use.

Selenium content

Index-Nr (formerly EC-Nr)	034-002-00-8
Toxic by inhalation and if swallowed	R23/R25
Risk of cumulative effects	R33

Section 3- Health Hazard Identification

Signs and symptoms of overexposure :

Skin contact : May cause irritation on prolonged contact.

Eye contact : May cause eye irritation upon direct contact. Seek medical attention

Ingestion : FDA recommends not to exceed ingestion of 0.2 mg selenium per day, which is equivalent to 50 mg of Alkosel® 3000. The Lowest Adverse Effect Level (LOAEL) defined as the average daily selenium intake causing individuals with a population to develop overt signs of toxicity is believed to be of the order of 1540 ± 653 micrograms/day.
Ingestion of highly concentrated selenium yeast powder could induce vomiting, headache, listlessness. Seek medical attention.

Inhalation : Repeated exposure may lead to allergic sensitization based on the exposure level, duration and susceptibility. Subsequent chronic or acute exposure in sensitized persons may cause a respiratory allergic reaction in minutes or delayed, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, chest tightness and difficulty breathing.

Section 4- First Aid

As a general rule, in case of doubt or if symptoms persist, always call a doctor

Eyes/skin- Flush with running water for 15 minutes

Inhalation- Remove from exposure

Ingestion- immediately rinse mouth and throat thoroughly with water



Material Safety Data Sheet

Section 5 – Fire Fighting

Flash point-	Not applicable
Flammable limits-	Not applicable
Fire extinguishing media-	Product is not combustible, water, dry chemical, foam or CO ₂
Special fire fighting procedures-	Use SCBA and protective clothing to prevent contact with skin and eyes.
Fire and Explosion Hazards-	None

Section 6- Accidental Release

In case material is released or spilled, vacuum spill or dilute with water. Collect powder in suitable container and wash surface with water. Avoid high pressure rinsing. Biodegradable and may be discharged into sewer.

No special disposal method required. Follow current local, state, and federal law regarding disposal.

Section 7-Handling and Storage

Handling-	Wear protective equipment described in section 8
Conditions for safe storage-	This product is not at risk for fire, explosion, or chemical reaction
	Store according to label directions to maintain label guarantees

Section 8- Exposure Controls/Personal Protection

Eye protection-	Safety glasses or goggles
Skin protection-	Not normally required
Respiratory protection-	Not normally required. If needed use NIOSH-approved mask to maintain acceptable inhalation levels.
Other protective clothing or equipment-	Cotton gloves, suitable work uniform with long sleeves
Ventilation-	Use in an area with effective ventilation

Section 9- Physical and Chemical Properties

Appearance-	Tan powder	Melting point-	Not applicable
Odor-	Yeasty	Boiling point-	Not applicable
Solubility-	Slightly	Vapour density-	Not applicable
Vapour pressure-	Not applicable		

Section 10- Stability and Reactivity

Stability-	Stable
Conditions to avoid-	None
Incompatibility-	Not established
Hazardous polymerization-	Will not occur
Hazardous decomposition or by-products:	Not established



Material Safety Data Sheet

Section 11- Toxicology Information

Carcinogenicity- Not listed as a carcinogen or potential by OSHA, the NTP and IARC monographs

Acute effects of overexposure- Chronic

Environmental effects- Marine pollutant (inorganic selenium). Limit leakage into earth and sand. If the product has escaped into a water course, drainage system, or has contaminated the ground or vegetation in exceeding quantities, notify the competent authorities.

Section 12- Ecological information

Bio-degradable, no known ecological effects

Section 13- Disposal Considerations

Insure conformity with all applicable disposal regulations

Section 14- Transportation Information

Not classified as dangerous in the meaning of transportation regulations

Section 15- Regulatory Information

This is a feed ingredient which must be used exclusively for the further manufacture of feed stuffs

Section 16- Other Information

None

The information herein is given in good faith and believed to be accurate and has been compiled from sources believed to be reliable. Buyer assumes all risk of use, storage and handling of this product in compliance with applicable federal, state, and local laws and regulations.